SEQUENCE LISTING

<110> Association Française contre les Myopathies

Hellenic Pasteur Institute

Tzartos, Socrates

Mamalaki, Avgi

 $<\!120\!>$ Production of recombinant fragments of muscle acetylcholine receptor and their use for ex vivo immunoadsorption of anti-ACh receptor antibodies from myasthenic patients

<130> PCT/GR03/00014

<140> PCT/GR03/00014

<141> 2003-07-03

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<170> PatentIn version 3.1

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Val Thr Val Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val 35 40 45

Asn Gln Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gln Trp Val Asp 50 55 60

Tyr Asn Leu Lys Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Lys Ile 70 75 80

His Ile Pro Ser Glu Lys Ile Trp Arg Pro Asp Leu Val Leu Tyr Asn 85 90 95

Asn Ala Asp Gly Asp Phe Ala Ile Val Lys Phe Thr Lys Val Leu Leu 100 105 110

Gln Tyr Thr Gly His Ile Thr Trp Thr Pro Pro Ala Ile Phe Lys Ser 115 120 125

Tyr Cys Glu Ile Ile Val Thr His Phe Pro Phe Asp Glu Gln Asn Cys 130 135 140

Ser Met Lys Leu Gly Thr Trp Thr Tyr Asp Gly Ser Val Val Ala Ile 145 150 155 160

Asn Pro Glu Ser Asp Gln Pro Asp Leu Ser Asn Phe Met Glu Ser Gly 165 170 175

Glu Trp Val Ile Lys Glu Ser Arg Gly Trp Lys His Ser Val Thr Tyr 180 185 190

Ser Cys Cys Pro Asp Thr Pro Tyr Leu Asp Ile Thr Tyr His Phe Val 195 200 205

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Ala Leu Thr Thr Asn Val Trp Ile Glu Met Gln Trp Cys Asp Tyr Arg 65 70 75 80

Leu Arg Trp Asp Pro Arg Asp Tyr Glu Gly Leu Trp Val Leu Arg Val 85 90 95

Pro Ser Thr Met Val Trp Arg Pro Asp Ile Val Leu Glu Asn Asn Val 100 105 110

Asp Gly Val Phe Glu Val Ala Leu Tyr Cys Asn Val Leu Val Ser Pro 115 120 125 Asp Gly Cys Ile Tyr Trp Leu Pro Pro Ala Ile Phe Arg Ser Ala Cys 130 135 140

Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys Ser Leu 145 150 155 160

Ile Phe Gln Ser Gln Thr Tyr Ser Thr Asn Glu Ile Asp Leu Gln Leu 165 170 175

Ser Gln Glu Asp Gly Gln Thr Ile Glu Trp Ile Phe Ile Asp Pro Glu 180 185 190

Ala Phe Thr Glu Asn Gly Glu Trp Ala Ile Gln His Arg Pro Ala Lys
195 200 205

Met Leu Leu Asp Pro Ala Ala Pro Ala Gl
n Glu Ala Gly His Gl
n Lys 210 225 220

Val Val Phe Tyr Leu Leu Ile Gln Arg Lys His His His His His 225 230 235 240

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Leu Lys Val Thr Leu Thr Asn Leu Ile Ser Leu Asn Glu Lys Glu Glu 50 60

Thr Leu Thr Thr Ser Val Trp Ile Gly Ile Asp Trp Gln Asp Tyr Arg 65 70 75 80

Leu Asn Tyr Ser Lys Asp Asp Phe Gly Gly Ile Glu Thr Leu Arg Val 85 90 \cdot 95

Pro Ser Glu Leu Val Trp Leu Pro Glu Ile Val Leu Glu As
n As
n Ile 100 \$105\$

Asp Gly Gln Phe Gly Val Ala Tyr Asp Ala Asn Val Leu Val Tyr Glu 115 120 125

Gly Gly Ser Val Thr Trp Leu Pro Pro Ala Ile Tyr Arg Ser Val Cys 130 135 140

Ile Phe Arg Ser Gln Thr Tyr Asn Ala Glu Glu Val Glu Phe Thr Phe 165 170 175

Ala Val Asp Asn Asp Gly Lys Thr Ile Asn Lys Ile Asp Ile Asp Thr 180 185 190

Glu Ala Tyr Thr Glu Asn Gly Glu Trp Ala Ile Asp Phe Cys Pro Gly
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Tyr Asn Lys Glu Leu Arg Pro Val Ala His Lys Glu Glu Ser Val Asp 35 40 45

Val Ala Leu Ala Leu Thr Leu Ser Asn Leu Ile Ser Leu Lys Glu Val 50 55 60

Glu Glu Thr Leu Thr Thr Asn Val Trp Ile Glu His Gly Trp Thr Asp
65 70 75 80.

Asn Arg Leu Lys Trp Asn Ala Glu Glu Phe Gly Asn Ile Ser Val Leu 85 90 95

Arg Leu Pro Pro Asp Met Val Trp Leu Pro Glu Ile Val Leu Glu Asn 100 105 110

Asn Asn Asp Gly Ser Phe Gln Ile Ser Tyr Ser Cys Asn Val Leu Val 115 120 125

Tyr His Tyr Gly Phe Val Tyr Trp Leu Pro Pro Ala Ile Phe Arg Ser 130 135 140

Ser Cys Pro Ile Ser Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys 145 : 150 : 155 : 160

Ser Leu Lys Phe Ser Ser Leu Lys Tyr Thr Ala Lys Glu Ile Thr Leu 165 170 175

Ser Leu Lys Gln Asp Ala Lys Glu Asn Arg Thr Tyr Pro Val Glu Trp 180 185 190

Ile Ile Ile Asp Pro Glu Gly Phe Thr Glu Asn Gly Glu Trp Glu Ile 195 200 205

Val His Arg Pro Ala Arg Val Asn Val Asp Pro Arg Ala Pro Leu Asp 210 215 220

Ser Pro Ser Arg Gln Asp Ile Thr Phe Tyr Leu Ile Ile Arg Arg Lys 225 230 235 240

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- Ser Ser Val Arg Pro Ala Arg Glu Val Gly Asp Arg Val Arg Val Ser 35 40 45
- Val Gly Leu Ile Leu Ala Gln Leu Ile Ser Leu Asn Glu Lys Asp Glu 50 55 60
- Glu Met Ser Thr Lys Val Tyr Leu Asp Leu Glu Trp Thr Asp Tyr Arg
 65 70 75 80
- Leu Ser Trp Asp Pro Ala Glu His Asp Gly Ile Asp Ser Leu Arg Ile 85 90 95
- Thr Ala Glu Ser Val Trp Leu Pro Asp Val Val Leu Leu Asn Asn Asn 100 105 110
- Asp Gly Asn Phe Asp \dot{V} al Ala Leu Asp Ile Ser Val Val Val Ser Ser 115 120 125
- Asp Gly Ser Val Arg Trp Gln Pro Pro Gly Ile Tyr Arg Ser Ser Cys 130 140
- Ser Ile Gln Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys Thr Met 145 150 155 160
- Val Phe Ser Ser Tyr Ser Tyr Asp Ser Ser Glu Val Ser Leu Gln Thr \$165\$ \$170\$ \$175\$
- Gly Leu Gly Pro Asp Gly Gln Gly His Gln Glu Ile His Ile His Glu
 180 185 190
- Gly Thr Phe Ile Glu Asn Gly Gln Trp Glu Asn Ile His Lys Pro Ser 195 _ 200 205
- Arg Leu Ile Gln Pro Pro Gly Asp Pro Arg Gly Gly Arg Glu Gly Gln 210 215 220 .

Arg Gln Glu Val Ile Phe Tyr Leu Ile Ile Arg Arg Lys His His 225 230 235 240

His His His